

**What is Claimed is:**

1. A method for making a stator of a brushless direct current motor, comprising the steps of:

(1) winding a coil set to predetermined turns, thereby forming a ring body having a central hole, and performing an insulation process;

(2) mounting at least two pole plates on two end faces of said coil set respectively, said pole face of each pole plate being mounted in said central hole of said coil set, said magnetically conducting rings of each pole plate encompassing said outer circumference of said coil set, and a wiring head of said coil set being drawn outside of said pole plate;

(3) mounting a combination member on an outside of each pole plate, and said combination member being closely fitted with said magnetically conducting rings of each pole plate, thereby forming a stator.

2. A method for making a stator of a brushless direct current motor, comprising the steps of:

(1) winding a coil set to predetermined turns, thereby forming a ring body having a central hole, and performing an insulation process;

(2) mounting at least two pole plates on two end faces of said coil set respectively, pole faces of each pole plate encompassing a periphery of said coil set in a staggered manner, a magnetically conducting plate of each pole plate being mounted in said central hole of said coil set, and a wiring head of said coil set being drawn outside of said pole plate;

(3) combining a combination member with said magnetically conducting plate of each pole plate in a close fit manner, thereby forming a stator.

1           3. A method for making a stator of a brushless direct current motor,  
2 comprising the steps of:

3           (1) winding a coil set around an insulating layer to predetermined  
4 turns, and said insulating layer having a central hole;

5           (2) mounting at least four pole plates on two end faces of said  
6 insulating layer respectively, pole faces of each pole plate encompassing an  
7 outer periphery of said coil set, magnetically conducting plates of each pole  
8 plate being respectively mounted in said central hole of said insulating layer,  
9 and a wiring head of said coil set being drawn outside of said pole plate;

10          (3) combining a combination member with each said magnetically  
11 conducting plate of each pole plate in a close fit manner, thereby forming a  
12 stator.

13          4. The method for making a stator of a brushless direct current motor  
14 as claimed in claim 3, wherein when at least two pole plates are mounted on two  
15 sides of said coil set, said pole faces and said magnetically conducting plates of  
16 each pole plate at the same side being adjacent to each other or overlapping  
17 each other; and said pole faces and said magnetically conducting plates of each  
18 pole plate at two different sides being arranged in a staggered manner.

19          5. A stator of a brushless direct current motor, comprising:

20          a coil set, having an insulating layer and a central hole, said coil set  
21 having a wiring head for connecting an electric power;

22          at least two pole plates, mounted on two end faces of said coil set  
23 respectively, each pole plate having pole faces and magnetically conducting  
24 rings, said pole faces of said two pole plates arranged in a staggered manner,  
25 said pole faces of each pole plate mounted in said central hole of said coil set,

1 said magnetically conducting rings of each pole plate arranged on an outer  
2 circumference of said pole plate; and

3 a combination member closely combined with said magnetically  
4 conducting rings of each pole plate.

5 6. A stator of a brushless direct current motor, comprising:

6 a coil set, having an insulating layer and a central hole, said coil set  
7 having a wiring head for connecting an electric power;

8 at least two pole plates, mounted on two end faces of said coil set  
9 respectively, each pole plate having pole faces and magnetically conducting  
10 plates, said pole faces and said magnetically conducting plates arranged in a  
11 staggered manner respectively, said pole faces of each pole plate mounted on  
12 an outer periphery of said coil set, said magnetically conducting plates of each  
13 pole plate mounted in said central hole of said coil set; and

14 a combination member closely combined with each magnetically  
15 conducting ring of each pole plate.

16 7. The stator of a brushless direct current motor as claimed in claim  
17 6, wherein said pole plates mounted on two end faces of said coil set are more  
18 than two, and said pole faces of each said pole plates at the same side are  
19 adjacent to each other, locally overlap each other or overlap each other.

20 8. The stator of a brushless direct current motor as claimed in claim  
21 6, wherein said pole plates mounted on two end faces of said coil set are more  
22 than two, and said magnetically conducting plates of each said pole plates at the  
23 same side are adjacent to each other, locally overlap each other or overlap each  
24 other.